

Applicant : Lanphere et al.
Serial No. : 10/637,130
Filed : August 8, 2003
Page : 2 of 14

Attorney's Docket No.: 01194-465001 / 03-347

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously presented) A polymeric particle comprising a polyvinyl alcohol and having a diameter of about 500 microns or less, wherein the particle has a first density of pores in an interior region and a second density of pores at a surface region, the first density being different from the second density.
2. (Currently amended) The polymeric particle of claim 1, wherein the second ~~first~~ density is greater than the first ~~second~~ density.
3. (Original) The polymeric particle of claim 1, wherein the particle has a first average pore size in the interior region and a second average pore size at the surface region, the first average pore size being different from the second average pore size.
4. (Original) The polymeric particle of claim 3, wherein the first average pore size is greater than the second average pore size.
5. (Original) The polymeric particle of claim 1, wherein the particle has a diameter of about 10 microns or more.
6. (Original) The polymeric particle of claim 1, wherein the particle has a diameter of about 100 microns or more.

Applicant : Lamphere et al.
Serial No. : 10/637,130
Filed : August 8, 2003
Page : 3 of 14

Attorney's Docket No.: 01194-465001 / 03-347

7. (Original) The polymeric particle of claim 6, wherein the particle has a diameter of about 300 microns or less.

8. (Original) The polymeric particle of claim 1, wherein the particle has a diameter of about 300 microns or more.

9. (Original) The polymeric particle of claim 1, wherein the particle comprises at least one polymer selected from the group consisting of polyvinyl alcohols, polyacrylic acids, polymethacrylic acids, poly vinyl sulfonates, carboxymethyl celluloses, hydroxyethyl celluloses, substituted celluloses, polyacrylamides, polyethylene glycols, polyamides, polyureas, polyurethanes, polyesters, polyethers, polystyrenes, polysaccharides, polylactic acids, polyethylenes, polymethylmethacrylates, polycaprolactones, polyglycolic acids, and poly(lactic-co-glycolic) acids.

10. (Cancelled).

11. (Original) The polymeric particle of claim 1, wherein the particle is at least partially coated with a substantially bioabsorbable material.

12. (Original) The polymeric particle of claim 1, wherein the particle has a density of from about 1.1 grams per cubic centimeter to about 1.4 grams per cubic centimeter.

13. (Original) The polymeric particle of claim 1, wherein the particle has a sphericity of about 0.9 or more.

14. (Original) The polymeric particle of claim 1, wherein, after compression to about 50 percent, the particle has a sphericity of about 0.9 or more.

Applicant : Lanpherc et al.
Serial No. : 10/637,130
Filed : August 8, 2003
Page : 4 of 14

Attorney's Docket No.: 01194-465001 / 03-347

15. (Original) The polymeric particle of claim 1, wherein the particle comprises about 2.5 weight percent or less polysaccharide.

16. (Original) The polymeric particle of claim 15, wherein the polysaccharide comprises alginate.

17. (Original) The polymeric particle of claim 16, wherein the alginate has a guluronic acid content of about 60 percent or greater.

18. (Original) The polymeric particle of claim 1, wherein the particle is substantially insoluble in DMSO.

19. (Original) The polymeric particle of claim 1, wherein the particle is substantially free of animal-derived compounds.

20. (Previously presented) A polymeric particle comprising a polyvinyl alcohol and having a diameter of about 500 microns or less, wherein the particle has a first average pore size in an interior region and a second average pore size at a surface region, the first average pore size being different from the second average pore size.

21. (Original) The polymeric particle of claim 20, wherein the first average pore size is greater than the second average pore size.

22. (Previously presented) A composition, comprising:
a plurality of particles, at least some of the plurality of particles comprising a polyvinyl alcohol and having a diameter of about 500 microns or less, wherein at least some of the particles having a diameter of about 500 microns or less have a first density of pores in an interior region

Applicant : Lanphere et al.
Serial No. : 10/637,130
Filed : August 8, 2003
Page : 5 of 14

Attorney's Docket No.: 01194-465001 / 03-347

and a second density of pores at a surface region, the first density being different from the second density; and

a carrier fluid, the plurality of particles being in the carrier fluid.

23. (Original) The composition of claim 22, wherein the carrier fluid comprises a saline solution.

24. (Original) The composition of claim 22, wherein the carrier fluid comprises a contrast agent.

25. (Original) The composition of claim 22, wherein the plurality of particles has a mean diameter of about 500 microns or less.

26. (Original) The composition of claim 22, wherein the plurality of particles has a mean diameter of about 10 microns or more.

27. (Original) The composition of claim 22, wherein the plurality of particles has a mean diameter of about 100 microns or more.

28. (Original) The composition of claim 27, wherein the plurality of particles has a mean diameter of about 300 microns or less.

29. (Original) The composition of claim 22, wherein the plurality of particle has a mean diameter of about 300 microns or more.

30. (Previously presented) A composition, comprising:
a plurality of particles, at least some of the plurality of particles comprising a polyvinyl alcohol and having a diameter of about 500 microns or less, wherein at least some of the particles

Applicant : Lanphere et al.
Serial No. : 10/637,130
Filed : August 8, 2003
Page : 6 of 14

Attorney's Docket No.: 01194-465001 / 03-347

having a diameter of about 500 microns or less have a first average pore size in an interior region and a second average pore size at a surface region, the first average pore size being different from the second average pore size; and

a carrier fluid, the plurality of particles being in the carrier fluid.

31-40. (Cancelled).

41. (Currently amended) A polymeric particle comprising a polysaccharide and having a diameter of about 500 microns or less, wherein the particle has an interior region defining pores and a surface region defining pores. the particle has a first density of pores in ~~the~~ an interior region and a second density of pores at ~~the~~ a surface region, the first density being different from the second density, and the particle has a first average pore size in the interior region and a second average pore size at the surface region, the first average pore size being greater than the second average pore size.

42. (Previously presented) The polymeric particle of claim 41, wherein the particle has a diameter of about 10 microns or more.

43. (Previously presented) The polymeric particle of claim 41, wherein the particle has a diameter of about 100 microns or more.

44. (Previously presented) The polymeric particle of claim 43, wherein the particle has a diameter of about 300 microns or less.

45. (Previously presented) The polymeric particle of claim 41, wherein the particle has a diameter of about 300 microns or more.

Applicant : Lanphre et al.
Serial No. : 10/637,130
Filed : August 8, 2003
Page : 7 of 14

Attorney's Docket No.: 01194-465001 / 03-347

46. (Currently amended) The polymeric particle of claim 41, wherein the particle comprises about 2.5 weight percent or less of the polysaccharide.

47. (Previously presented) The polymeric particle of claim 46, wherein the polysaccharide comprises alginate.

48. (Previously presented) The polymeric particle of claim 20, wherein the particle has a diameter of about 10 microns or more.

49. (Previously presented) The polymeric particle of claim 20, wherein the particle has a diameter of about 100 microns or more.

50. (Previously presented) The polymeric particle of claim 49, wherein the particle has a diameter of about 300 microns or less.

51. (Previously presented) The polymeric particle of claim 20, wherein the particle has a diameter of about 300 microns or more.

52. (Previously presented) The polymeric particle of claim 20, wherein the particle comprises about 2.5 weight percent or less polysaccharide.

53. (Previously presented) The polymeric particle of claim 52, wherein the polysaccharide comprises alginate.

54. (Previously presented) The composition of claim 30, wherein the plurality of particles has a mean diameter of about 500 microns or less.

Applicant : Lanphere et al.
Serial No. : 10/637,130
Filed : August 8, 2003
Page : 8 of 14

Attorney's Docket No.: 01194-465001 / 03-347

55. (Previously presented) The composition of claim 30, wherein the plurality of particles has a mean diameter of about 10 microns or more.

56. (Previously presented) The composition of claim 30, wherein the plurality of particles has a mean diameter of about 100 microns or more.

57. (Previously presented) The composition of claim 56, wherein the plurality of particles has a mean diameter of about 300 microns or less.

58. (Previously presented) The composition of claim 30, wherein the plurality of particle has a mean diameter of about 300 microns or more.